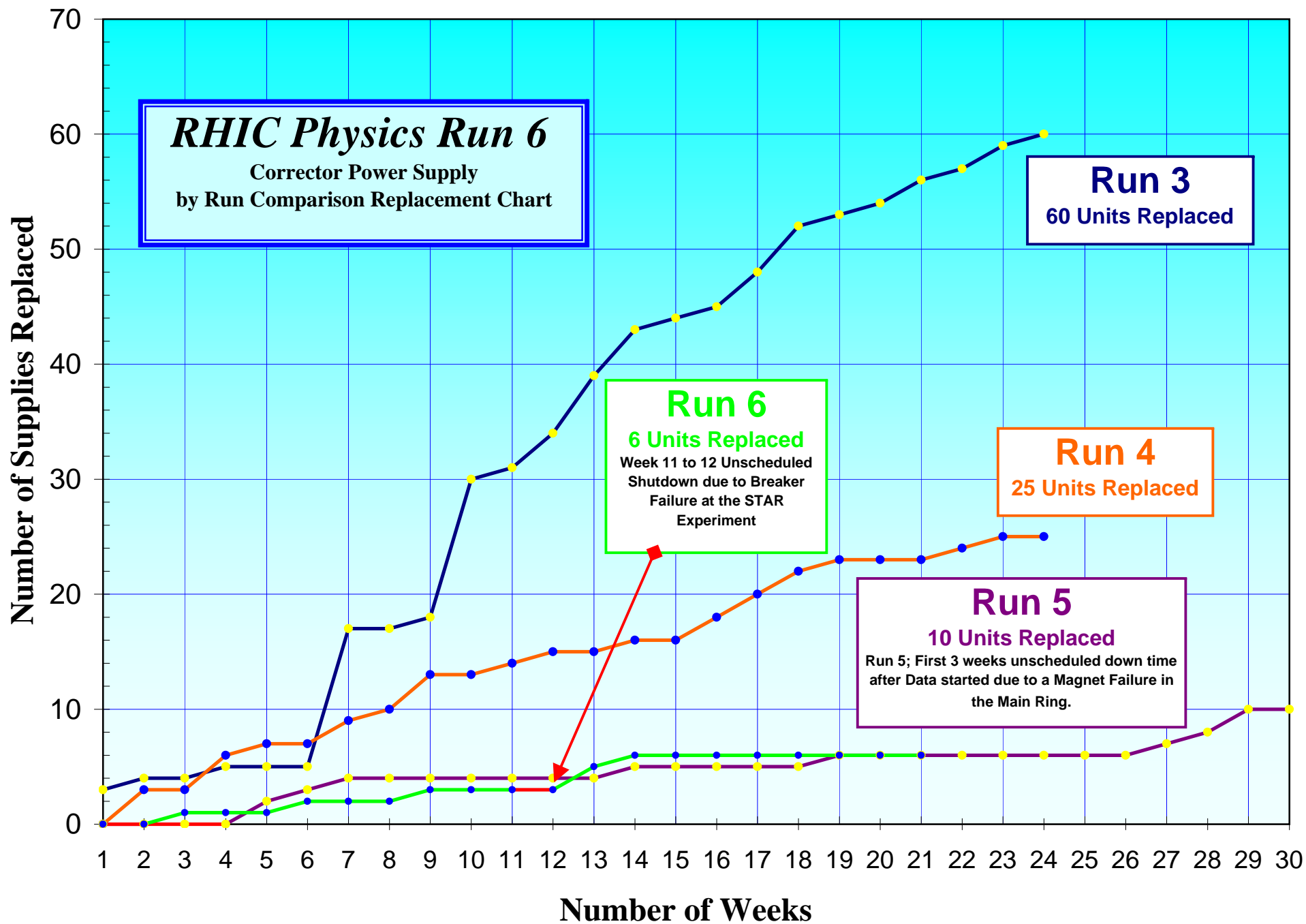
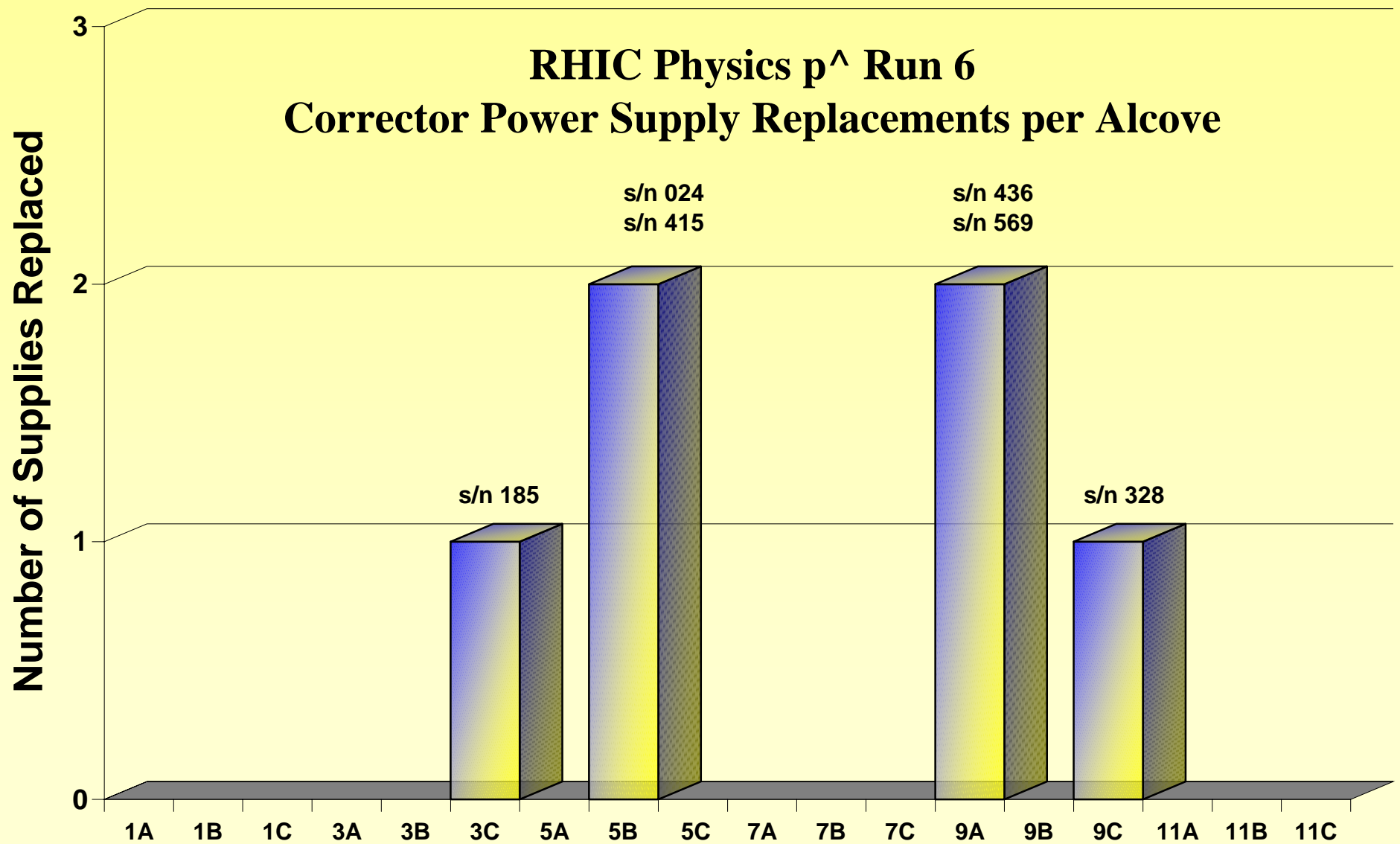
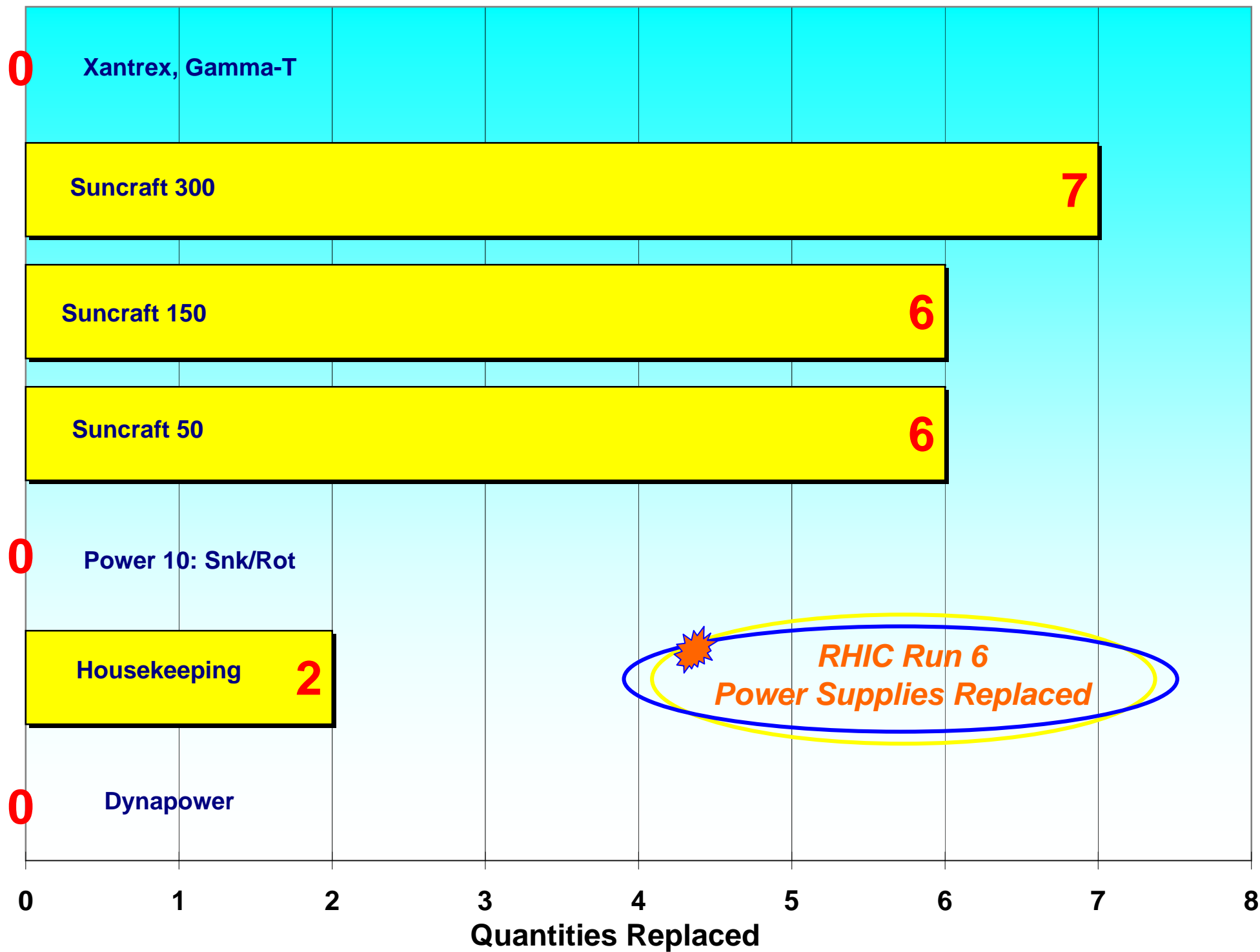


RHIC PHYSICS YEARLY RUN - QLI COUNTERS

Main QLI Faults		RUN #	Run 2	Run 3	Run 4	Run 5	Run 6
Beam Induced	Runs 1 & 2 No Data Available	46	69	54	37	18	
Quench Detector Faults		13	29	13	20	2	
Quench Detector / Controls CFE		New Field added starting with Run 6					10
IR Supply Faults		100	44	24	51	29	
QPA Faults		40	6	9	6	5	
Main PS (Total) Faults		68	38	46	6	14	
Controls 6B Yellow Permit Fail		25	9	24	0	0	
Controls Related		20	15	20	13	5	
Operations Error		34	15	17	12	4	
Cryo Related		6	9	2	4	2	
Power Failure		10	8	3	7	9	
Other		27	27	24	29	9	
Power Supply Induced Quench		6	1	4	0	0	
Totals:		1197	395	270	240	185	107
Snake / Spin Quench Faults		RUN #	Run 2	Run 3	Run 4	Run 5	Run 6
Beam Induced	Runs 1 & 2 No Data Available	20	17	5	2	3	
Controls Related		New Field added starting with Run 6					9
Quench Detector Faults		0	0	1	0	2	
Quench Detector / Controls CFE		New Field added starting with Run 6					1
Power Supply Faults		10	2	4	0	1	
QPA Faults		0	0	0	0	0	
Operations Error		2	0	2	1	2	
Cryo Related		2	0	1	3	3	
Power Failure		0	0	2	2	9	
Other		2	6	0	5	0	
Totals:		119	36	25	15	13	30
AGS Cold Snake Quench Faults		RUN #				Run 5	Run 6
Beam Induced		First Cryogenic Magnet Installed into the AGS Accelerator Ring! Commissioning Run March 30, 2005 (Run 5)				0	0
Controls Related						0	0
Quench Detector Faults						0	0
Quench Detector / Controls CFE						0	2
Power Supply Faults						13	9
QPA Faults						0	1
Operations Error						9	3
Cryo Related						0	0
Power Failure						0	1
Other						0	0
Quench Heaters						0	1
Totals:						39	0

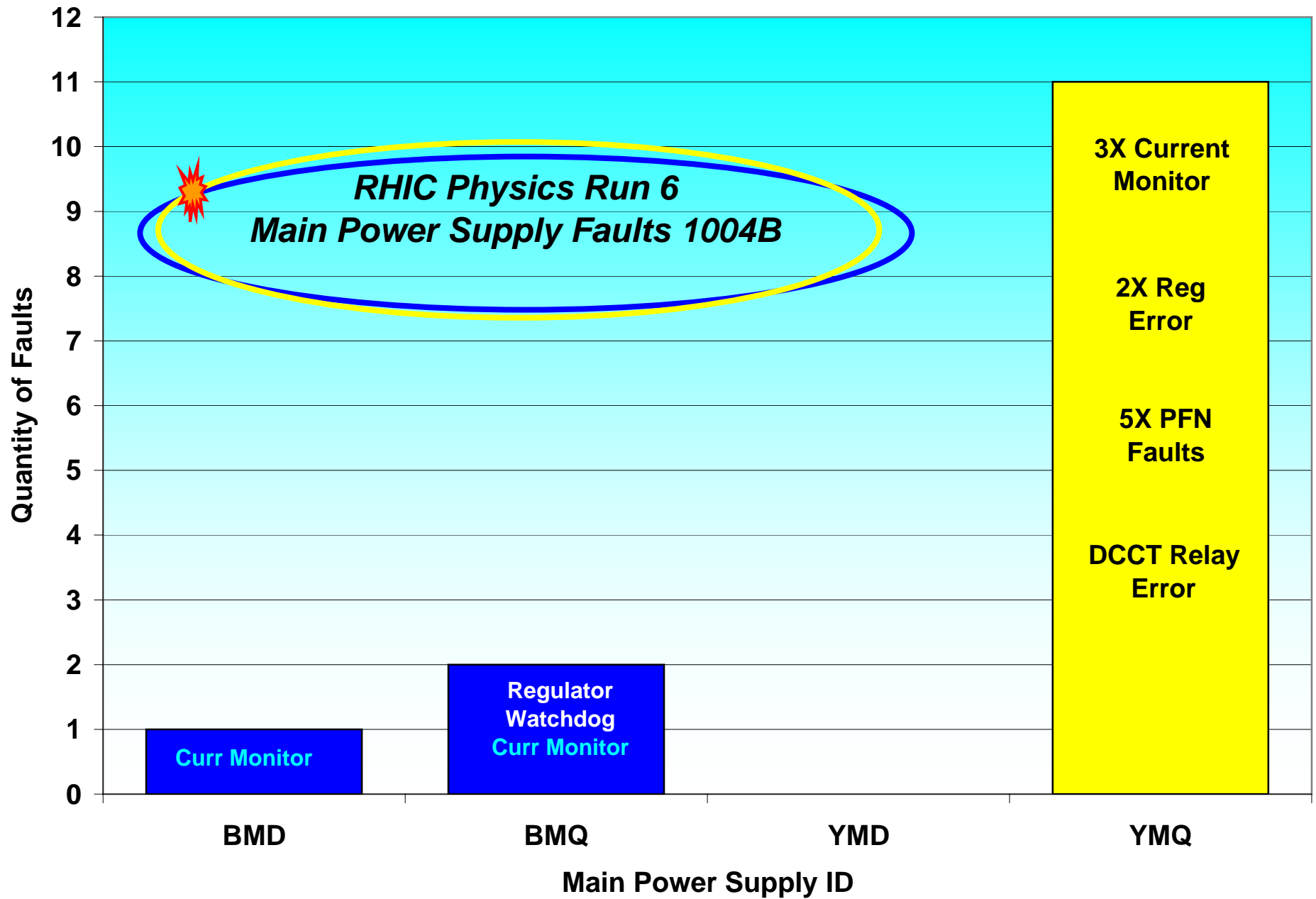






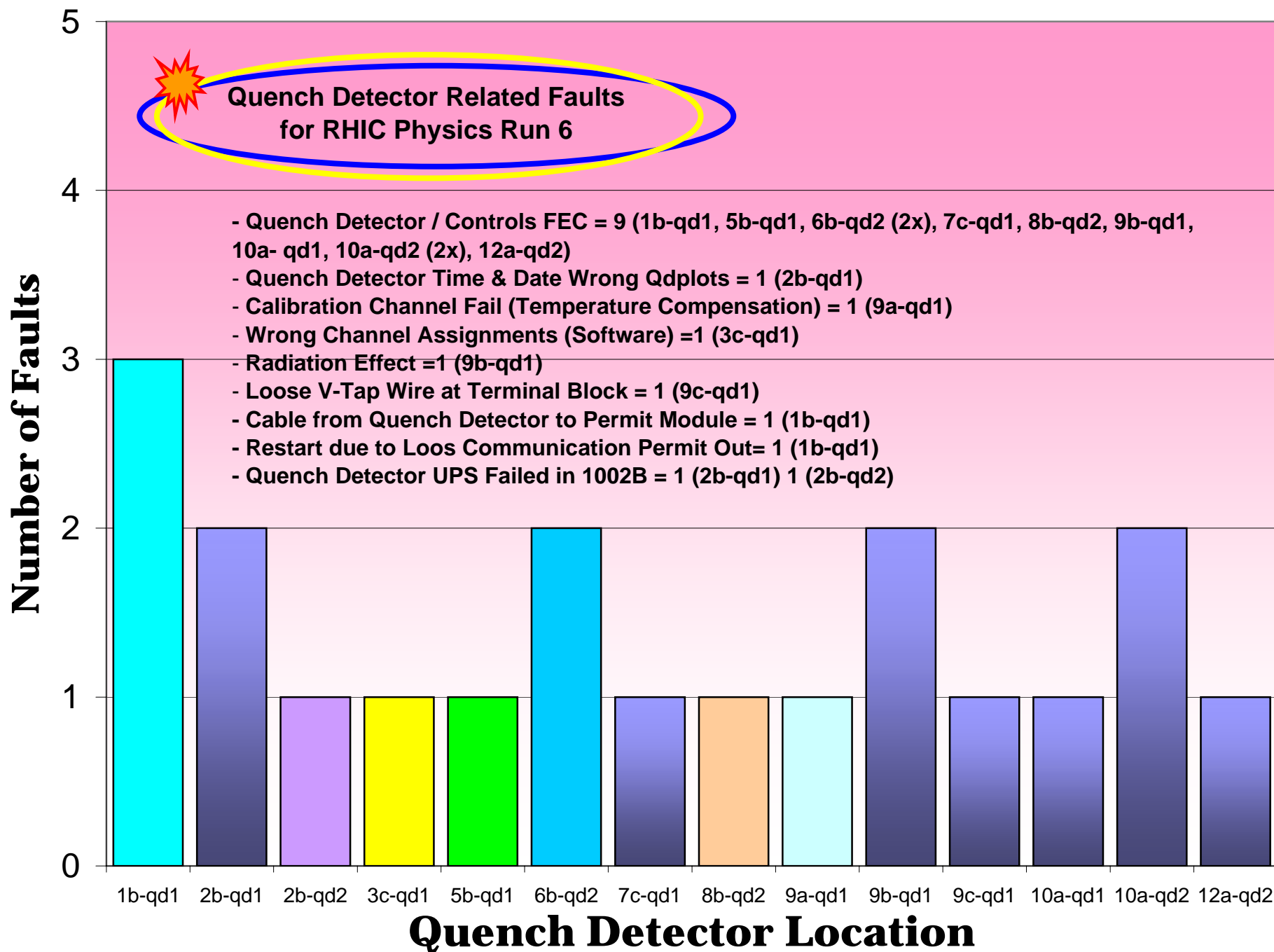
RHIC PHYSICS YEARLY RUN - QLI COUNTERS

6-Feb-06					
15-Feb-06					
18-Feb-06					
13-Mar-06					
16-Mar-06					
19-Mar-06					
4-Apr-06					
5-Apr-06					
3-May-06					
10-May-06					
11-May-06					
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22-May-06					
2-Jun-06					
8-Jun-06					
8-Jun-06					
10-Jun-06					
10-Jun-06					



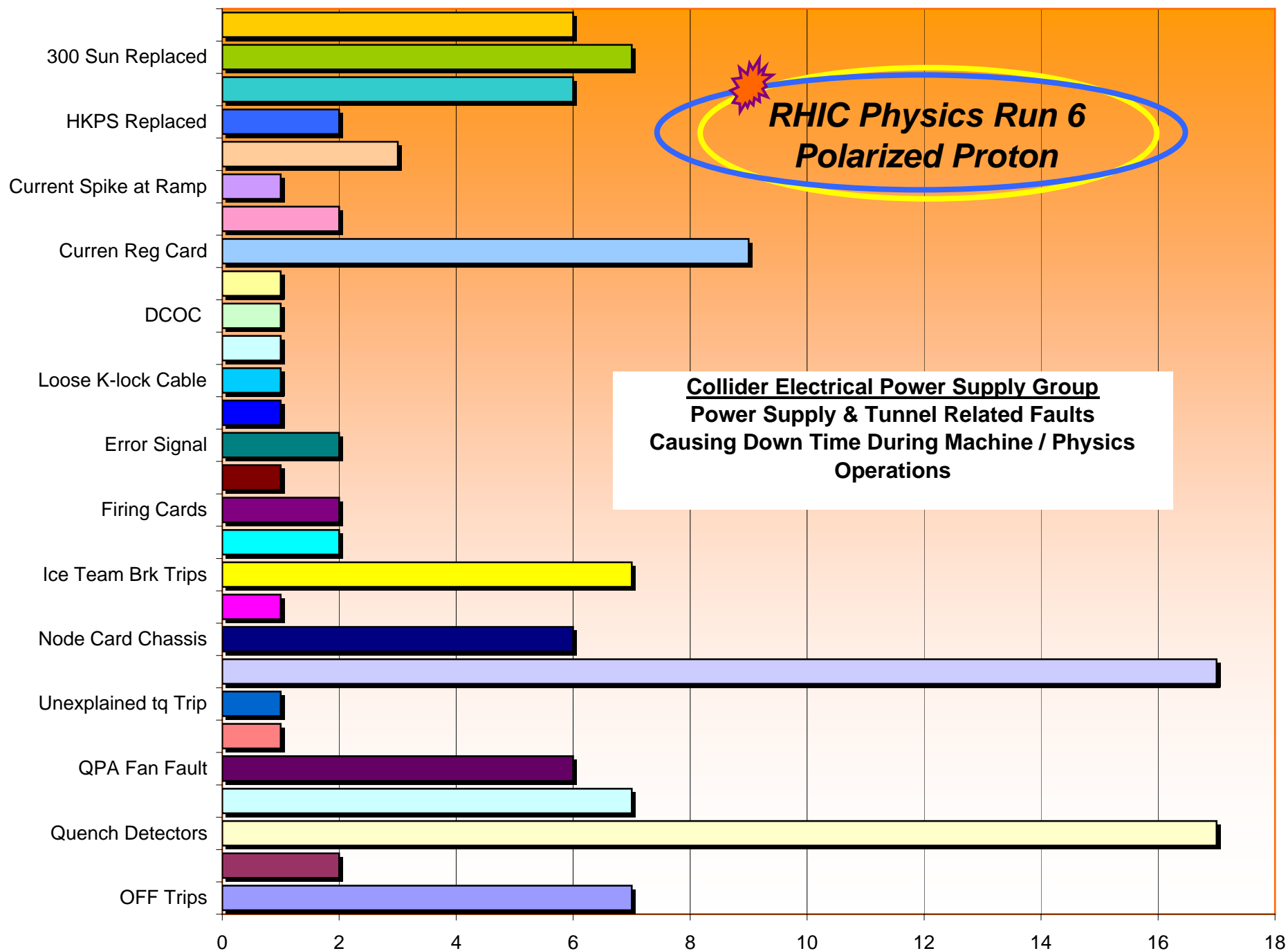
RHIC PHYSICS YEARLY RUN – QLI COUNTERS

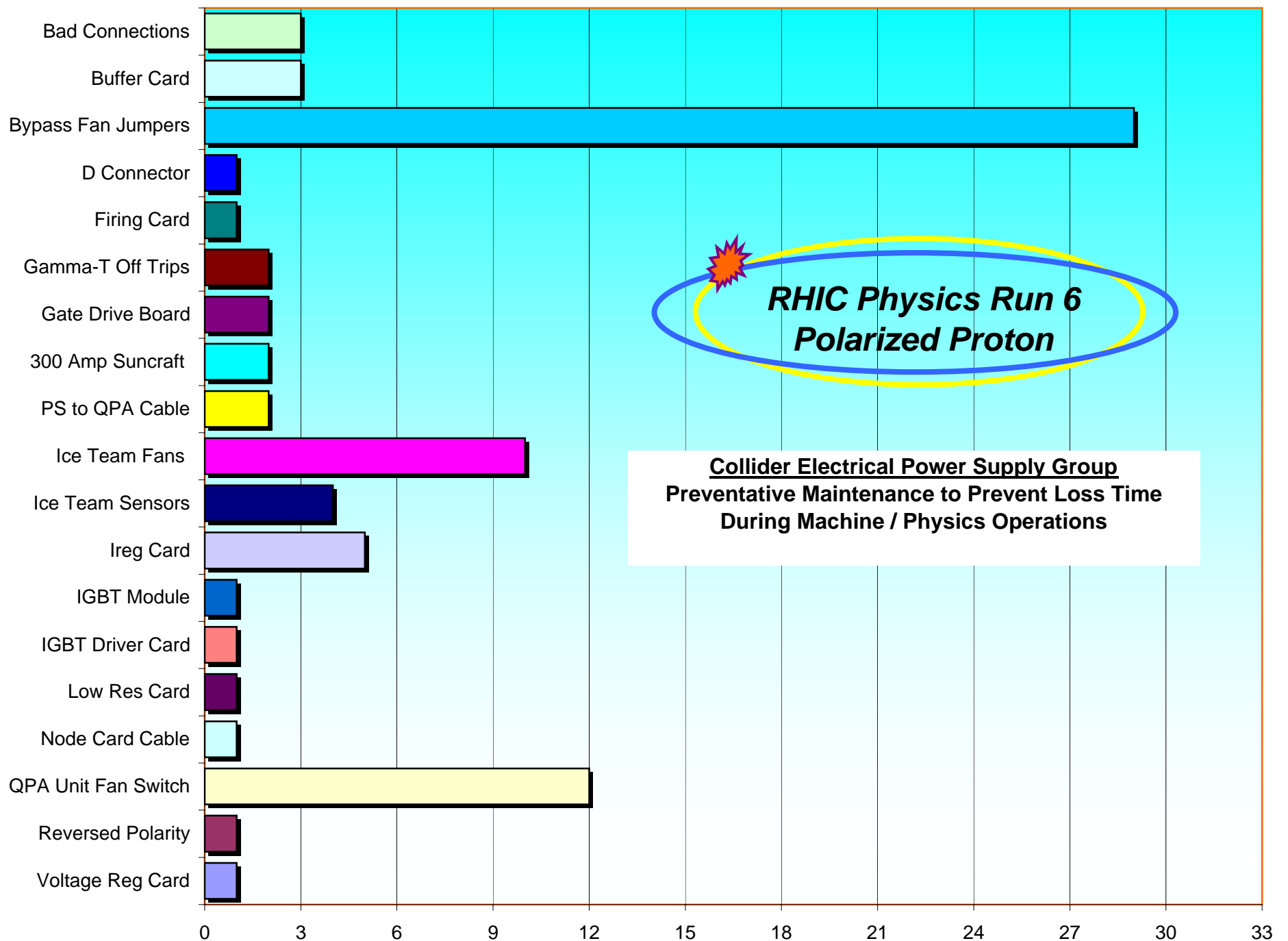
Date	Time	I-dent	QLI Ref:	Analysis of Main Power Supplies 1004B	Fault ID
31-Mar-06	22:37:15	YMQ	PR-012	2006-Mar-31 22:37:00 A Yellow QLI has occurred while the Yellow magnets were sitting at injection field. 2006-Mar-31 22:45:00 C. Schultheiss is investigating the cause of the Yellow QLI from home. We received an alarm for y-qmain Reg DCCT. 2006-Mar-31 23:00:00 Carl reports that the y-qmain DCCT error is clear. He will watch from home while we attempt to recover the Yellow quench link. Don has asked that we wait to do this until after the Blue line has been recovered. (DCCT Relay Error)	DCCT Reg
4-May-06	18:50	BMQ	PR-036	20:19 Preliminary analysis here shows the blue main quad moving before t=0. I think this caused this blue qli. A more detailed analysis will follow to confirm. -Don Bruno [rhic] [ps] 23:35 Blue main quad had a Reg. watch dog fault. Some thing in the main quad current regulator faulted and caused the RTDL main quad current to go to zero. -Ganetis [ps quench]	Reg Watchdog
26-May-06	9:47:32	YMQ	PR-045	11:03, The error was the Yellow Quad PFN circuit #1. Investigation after the trip showed the PFN circuit charged up normally and all the ancillary circuits were working. The connections to the PLC input module were tightened. -CS	Yellow Main Quad PFN Circuit #1
16-Jun-06	1:53:08	YMQ	PR-061	The 24 Volt to the PLC Remote I/O in the Hot Box was momentarily lost causing the Regulator to go Low, indicating a Quench. The Regulator then Shut-off the drive to the Power Module SCR's and the Current coasted through the last pair ON, slowly decaying until the Regulator pulled the Link on a Regulator Error.	Reg Error
17-Jun-06	2:36:10	y-qmain	PR-063	Jun-19-2006 10:33 This is very similar to the June 16 QLI Event at 01:53:08 when the Yellow Main Quad power supply's current begins to drift down and the voltage goes into a Sine Wave of 193V Peak to Peak. As Carl Schultheiss had explained to me the last time this occurred, "by looking at the Cold Box Temperature Signals, there was a momentarily loss of 24 volts to the PLC Remote I/O in the Hot Box. This momentarily lost caused the Regulator to go Low, indicating a Quench. The Regulator then Shut-off the drive to the Power Module SCR's and the Current coasted through the last pair ON, slowly decaying until the Regulator pulled the Link on a Regulator Error". Since this 24 volt signal comes back on its own (a possible loose connection) the Recovery can be made without problem but Carl has to reset the software for the Temperature Signals to continue to record data. -G. Heppner [rhic] [quench]	Reg Error
22-Jun-06	3:25:21	y-qmain	PR-067	2006-Jun-22 03:25:00 Development is off. A Yellow quench link interlock occurred during a ramp to top energy, though the beam in Yellow had been lost much earlier (when the RF loops closed). 2006-Jun-22 03:45:00 C. Schultheiss was contacted, since the QLI appeared to be triggered by the y-qmain power supply. Carl reports that there was a current monitor fault. Quench recovery has begun. 2006-Jun-22 04:03:00 Machine Development. RHIC injection has resumed.	Current Monitor Fault
22-Jun-06	4:14:34	y-qmain	PR-068	2006-Jun-22 04:14:00 Development is off. Another Yellow QLI occurred under the same conditions. 04:32 Both Carl Schultheiss and Fred Orsatti are coming in to repair the y-qmain problem. -jpi, vhs, csa 06:27 A problem with y-qmain exists that Carl believes we can live with for the remainder of the run. He and Fred have disabled the current monitoring in software in order to allow us to continue with the development work, and will discuss the issue with other Power Supply people during the daytime. -jpi, vhs, csa	Current Monitor Fault
24-Jun-06	Ops Log	y-qmain	PR-079 (3X)	2006-Jun-24 16:30:00 C. Schultheiss and F. Orsatti are coming in to investigate a problem with the Yellow main quads. The main quads have pulled the yellow quench link 3 times this shift (PFN Faults) well after the power dips had subsided. 2006-Jun-24 20:28:00 Carl and Fred are preparing to replace a bad PFN relay on the power supply relay board for the y-qmain power supply. 2006-Jun-24 21:56:00 Carl reports that the repair is complete. Running Yellow quench recovery. 2006-Jun-24 22:14:00 Quench recovery has failed. Carl and Fred are reviewing the y-qmain problem again. 2006-Jun-24 23:03:00 Running Yellow quench recovery again. 2006-Jun-24 23:17:00 Quench recovery is complete. Carl reports that a loose wire the supplies -15V to the sensing circuit for PFN1 was tightened. The relay replaced earlier was probably not the cause of the problem. (Major Power Dips for the Weekend)	PFN (3X)
25-Jun-06	3:46:32	y-qmain	PR-081	2006-Jun-25 03:46:00 Another Yellow quench link interlock has occurred, most likely caused by a PFN fault on the y-qmain power supply. 2006-Jun-25 04:10:00 Carl is coming in again to investigate. 2006-Jun-25 04:30:00 Fred is coming in again. 2006-Jun-25 06:35:00 Starting quench recovery. 2006-Jun-25 06:50:00 Quench recovery has failed. Carl and Fred are continuing their work. 2006-Jun-25 07:00:00 C. Schultheiss and F. Orsatti are working on repairing the cause of multiple QLI's in the Yellow ring. 2006-Jun-25 11:37:33 C. Schultheiss and F. Orsatti was not able to determine the root cause of the numerous yellow QLI's	PFN
25-Jun-06	7:05:41	b-qmain	PR-082	While Carl and Fred where working on the Yellow Main Quad PFN Fault, the Blue Main Quad tripped on a Regulator Error. Talking to Carl, he has no idea since they where not working near this system.	Reg Error
25-Jun-06	13:27:16	y-qmain	PR-083	The PLC was accidentally reloaded with the old software. It was several hours after recovery when this QLI Event occurred. Carl had to go into the software and make the changes to the newer version. C. Schultheiss	Current Monitor
26-Jun-06	6:57:20	b-dmain	PR-085	15:52 This Blue QLI Event was caused by the Blue Main Dipole power supply. A Current Monitor Fault developed during the switchover between Flattop and Ramp. -G. Heppner [rhic] [quench]	Current Monitor



RHIC PHYSICS YEARLY RUN - QLI COUNTERS

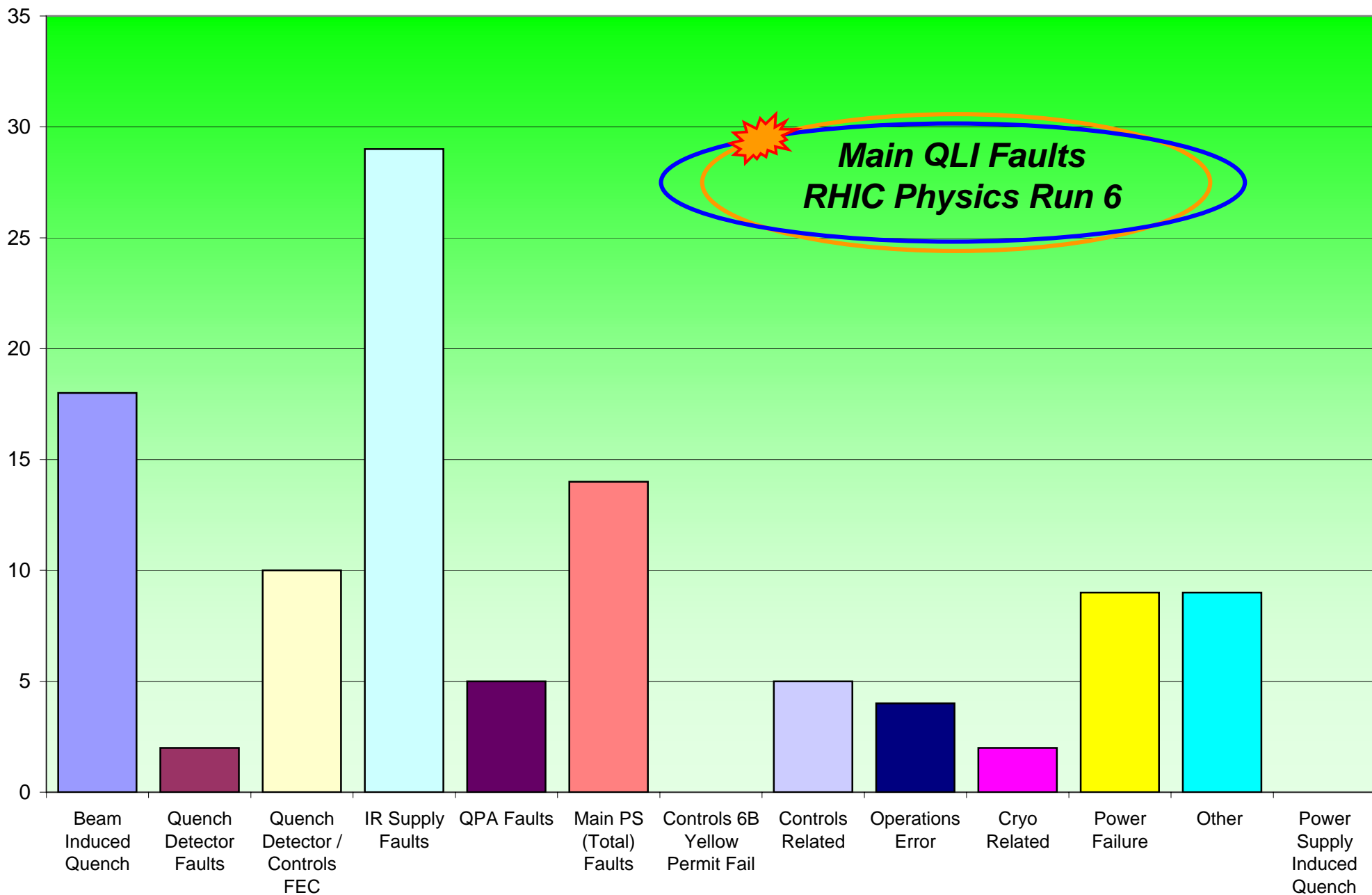
Date	Time	Ident	Loc	QLI Ref.	Analysis of Quench Detectors	Fault ID
20-Feb-06	12:19:43	cfe-10a-qd2	10A	MS-010	2006-Feb-20 12:01:00 cfe-10a-qd2 reports a no heartbeat fault on the alarm display. 2006-Feb-20 12:06:00 While trying to reset the FEC (b0-aq2) In request that Quench Detection personnel be contacted first. 2006-Feb-20 12:22:00 resetting cfe-10a-qd2 after consulting with G. Ganetsis. 2006-Feb-20 12:25:00 The Yellow Quench link was pulled as a result of resetting the Quench Detection FEC.	Quench Detector Controls FEC
21-Feb-06	23:41:00	3c-qd1	3C	George Neufeld	2006-Feb-21 23:41:00 G. Ganetsis calls to report a problem with the quench protection for the stakes in the 3C alcove. He will require ~1 hour to diagnose and repair the problem from home. This work will include change the stake currents, preventing us from injecting into RHIC. (1:01) I have found a problem with channel assignments in the 3c-qd1 quench detector. The initial testing should have found this but it did not. The problem was corrected and now all the signals are correct. Ganetsis.	Software Channel Assignments
22-Mar-06	18:10:57	cfe-7c-qd1	7C	PSQ-001	2006-Mar-22 17:56:00 Communications have been lost with cfe-7c-qd1. 2006-Mar-22 18:05:00 APEX is off. We successfully ramped the RHIC magnets to zero before resetting the FEC. Only rotators are on the 7c-qd1, so the permit would only be down while the rotators were tripped on a quench due to the quench detector FEC reboots. Mar-23 2006 14:23 The Power Supplies for these magnets where at 1kV Current (less than 1 amp) therefore the magnets did not quench. All four (4) Rotators had tripped due to the cfe-7c-qd1 reboots as per MCR - G. Heppner (thc) [quench]	Quench Detector Controls FEC
22-Mar-06	14:54:53	9c-qd1	9C	PSQ-002	There was a loose gas cooled lead voltage tap wire on b09-aq7-2.3 that caused this stake magnet to quench at 14:54. Dan Odham went into investigate, along with Wing Louie and Gregg Heppner, and Dan found the loose wire. It was repaired and he checked all the other wires while we were down there. -Don Bruno [thc] [quench] Detailed Info: T22-3 positive lead Voltage Tap Was RHISNCTR_GL located at the Quench Detector in Alcove PC, Dio Rail Patch Panel was not properly secured. The Screw terminal was found fully tightened but the wire somehow was never properly positioned into this connector and was found to be just making physical contact. This caused the Quench Detector to Fire, tripping both magnets at Operating Current. First b09-aq7-2.3 Quenched and approximately 2.16 seconds after, heated gas caused b09-aq7-1.4 to quench. G. Heppner	Gas Cooled Lead RHISNCTR_GL Faulty Wire Tap
23-Mar-06	15:18:20	cfe-5b-qd1	5B	PR-005	16:35 We had to reboot a front end, cfe-5b-qd1, due to a response failure indication that occurred during the physics store. This caused the quench links to drop. In the meantime, during the access into RHIC, two stake suffered a real quench. b09-aq7-2.3 and 1.4. The fault was caused by a faulty voltage tap for a gas-cooled lead to the stakes, and has caused elevated temperatures around the ring. We await clearance from Cryo before proceeding with recovery. L.H. Blue Recovery Completed at 16:51:11 and Yellow Recovery Completed at 17:03:00. Sexapole Magnets in 5B required Re-training since the Quench Detector 5b-qd1 was reset and was done by MCR Personnel - G. Heppner	Quench Detector Controls FEC
24-Mar-06	19:02:52	cfe-8b-qd2	8B	PR-006	2006-Mar-24 18:17:00 Front end 8b-qd2 shows a response failure. fit indicates that a reboot of the front-end is required. We contact W. Louie for assistance. W. Louie confirms that front-end 8b-qd2 will require a reboot. He asks us to confirm the situation with J. Huff. W. Louie requests that we contact J. Huff. W. Louie requests that we contact J. Huff to assess the network traffic for front-end 8b-qd2. Wing suggested that that the volume of network traffic at the front end may account for its failure and the failure of 5b-qd1 yesterday. We are preparing to reboot the 8b-qd2 FEC. We must ramp the magnets in RHIC to zero-current. Rebooting cfe-8b-qd2. 2006-Mar-24 19:34:44 Quench link for yellow is recovered. We begin hysteresis ramp. 2006-Mar-24 19:46:00 Hysteresis ramp completes.	Quench Detector Controls FEC
25-Mar-06	23:45:00	cfe-12a-qd2	12A	PR-008	23:45 Quench Link Interlock in Yellow ring First input dropped was 12a-ps1.A (23:45:00 1681663) First upstream counter drop was th-lane.A (23:45:00 1681664) -Sequencer 23:45 Beam Abort, 12a-ps1.A dropped Yellow Quench-Sequencer 23:50 This quench is happened because we had to reboot cfe-12a-qd2 -NAK	Quench Detector Controls FEC
31-Mar-06	16:31:36	9b-qd1	9B	PR-009	2006-Mar-31 16:40:00 QLI in blue and yellow. Cryo is checking their equipment. MCR is ramping down the magnets and preparing for access to replace cfe-7a-ps2. CAS will assist 1 Pipe in the replacement. 2006-Mar-31 16:45:00 Sequencer reports 16 real magnet quenches on quadrupoles and dipoles in both blue and yellow ring. G. Ganetsis reports that the quench detector reports to have suffered from radiation upset and is reporting bad quench data. Cryo control reports no heat or pressure spikes. 2006-Mar-31 17:32:00 D Bruno has restored the blue links. Yellow will wait until 7a-ps2 is back up. 2006-Mar-31 18:24:40 cfe-7a-ps2 is back up. Running yellow quench recovery.	Radiation Effect
7-Apr-06	15:15:57	2b-qd1 Aux	2B	PS Fail	For the NI-96-ps-wip, Qdqlon time and date are incorrect for this event. [qdr2_04052006_220557_02_A, ddr Blue Aux C Quenched [Shallit] T06_V7 In 1/0404/05/2006 22:05:57 (thcMode: CUCU1)] was indicated when the actual date was 04/07/2006 and the Time of the Event was 15:15:57. George Ganetsis was notified and looked into the issue. The Ports for the wrong Date and Time are the ones to use.	Wrong Time and Date Transfer
9-Apr-06	1:32:24	cfe-6b-qd2	6B	PR-020	Sequence of Events: 2006-Apr-08 22:28:53 Cryo control reports that they have lost communication with lead drive in the 6 o'clock sector. They report that the cryoPlant server be restarted. 2006-Apr-08 22:40:00 Cryo reports that they are continuing to have communications difficulties. The problem is related to the response failure indication from cfe-6b-qd2. The front-end will require a reboot in order to restore communication. We leave a message for L. Huff and then call G. Ganetsis for assistance. 2006-Apr-08 23:10:44 G. Ganetsis has called the cryo control room and determined that the refrigeration system is stable and will tolerate continued operation in this state until the front-end 6b-qd2 can be reset. We sit on the computer at the end of the present store. 2006-Apr-09 01:00:00 RHIC physics ends. 2006-Apr-09 01:28:24 Beam is aborted in RHIC due to a slow loss radiation monitor interlock from g9-ba5. The interlock occurred after we had manually aborted beam in the yellow ring in preparation for measuring the entrance in blue. We ramp down to park to reboot cfe-6b-qd2. 2006-Apr-09 01:33:16 After ramping down to park in RHIC, we reboot cfe-6b-qd2. 2006-Apr-09 01:41:34 Cryo	Quench Detector Controls FEC
12-Apr-06	21:41:47	cfe-9b-qd1	9B	PR-026	2006-Apr-12 23:23:58 Summary: Accelerator Beam Experiments ran for 7.5 hours this shift. Afterwards cfe-9b-qd1 was reset which brought down both the Yellow & Blue quench links. Once the quench links were recovered, the sextupoles associated with the 9b alcove had to be retrained. As of the end of shift RHIC has been put through a hysteresis cycle and is being preped for a 111x1111-64 bunch pattern fill.	Quench Detector Controls FEC
12-Apr-06	23:28:44	cfe-6b-qd2	6B	PR-027	2006-Apr-12 23:30:30 6b-qd2 is now dead. MCR consulted G Ganetsis per fix reset instructions, he advises us to do ahead with the reset. Ramped to zero. 2006-Apr-12 23:54:00 Quench links are back on. Hysteresis ramp.	Quench Detector Controls FEC
13-Apr-06	9:38:40	cfe-1b-qd1	1B	PR-028 / 029	Communications Failure of the cfe-1b-qd1 Quench detector required a Re-boot. It was decided to Re-boot all cfe Quench Detector front ends this time since there has been multiple communications faults with the cfe-qd1s including 4 within the last 24 hours. This caused the Blue Ring to quench. G. Heppner	Quench Detector Controls FEC
16-Apr-06	13:56:49	cfe-10a-qd2	10A	CRYO	2006-Apr-16 13:56:49 Cryo reports that they have lost communication with the 10 o'clock sector. After inspection, we find that cfe-10a-qd2 indicates a no heartbeat condition. After leaving messages for L. Huff and W. Louie as well as confering with G. Ganetsis, we reboot the FEC, restoring cryo communication with the sector.	Quench Detector Controls FEC
25-Apr-06	10:23:06	cfe-10a-qd1	10A	PR-032	Alarm Page indicated at 07:44:28. No Heartbeat, response failure - acrfco303 plus bad gen. Notified the proper personnel. GH 11:23 This Blue Ring (QL) was due to a reset of the cfe-10a-qd1 (Item Number 7 of the Automated Analysis). Observation: Both rings had been ramped to zero current and all 4 DX Heaters in 1010A had been fired while the DX Magnet was at low current. -G. Heppner (thc) [quench]	Quench Detector Controls FEC
2-May-06	4:15:25	cfe-9a-qd1	9A	PSQ-016	The 9a-qd1 quench detector tripped because of a hardware problem with the temp. compensation channel. I have turned the temp. compensation off in this quench detector for now. -Ganetsis (thc) [quench] Access required to make repair.	Temp Compensation Channel
3-May-06	9:15:00	cfe-9a-qd1	9A	Ref to PSQ-016	Found Channel 15 of Card 1 (Dual Gain Max Card) that is responsible for the Temperature Compensation Channel (Calibration Channel) was reading 1030 when warm operation should have been 0.3v. Replaced Card and reloaded system back to operation. D. Odham, W. Louie, G. Heppner.	Temp Compensation Channel
1-Jun-06	4:27:43	cfe-1b-qd1	1B	PR-048	06:38 The blue link wip cause looks like an intermittent cable connection between the 1b-qd1 quench detector and the permit module. This should be checked soon. This quench detector is located in the 1B alcove. -Ganetsis (thc) [quench]	Other (Cable)
1-Jun-06	9:56:10	cfe-1b-qd1	1B	PR-050	Ref to PR-048, Tunnel access was granted when PR-049 (b-qdrin Tddio Bus Failed). Chained and inspected K-lock Connections at Cables, Quench Detector and the Permit Module Chassis. Tap test and Wiggle Wire Test all areas that might have effect, could not get another fault. Measured Permit Cables, both indicated Open and then continuity = 1.1 ohms (good). Then, the Output Signal to the Permit Module failed during Analysis and required that the 1b-qd1 Quench Detector be Restarted. Wing Louie & Gregg Heppner	QD Restart
13-Jun-06	8:44:34	cfe-2b-qd1 cfe-2b-qd2	2B	PR-059	10:28 Tom Nolan, Jeff Wilke and Gregg Heppner are swapping out the UPS for the quench detector in 1002B. They will contact Wing Louie when they are done. Wing will get rsh quench detector going and then contact MCR. -Don Bruno [thc] [ps] 11:35 The Blue and Yellow Link tripped due to a UPS Fail causing a loss in power to the Quench Detection Rack in Building 2B. This loss of power also caused all 4 DX Magnet Heaters to Flare. -G. Heppner (thc) [quench]	UPS Fail



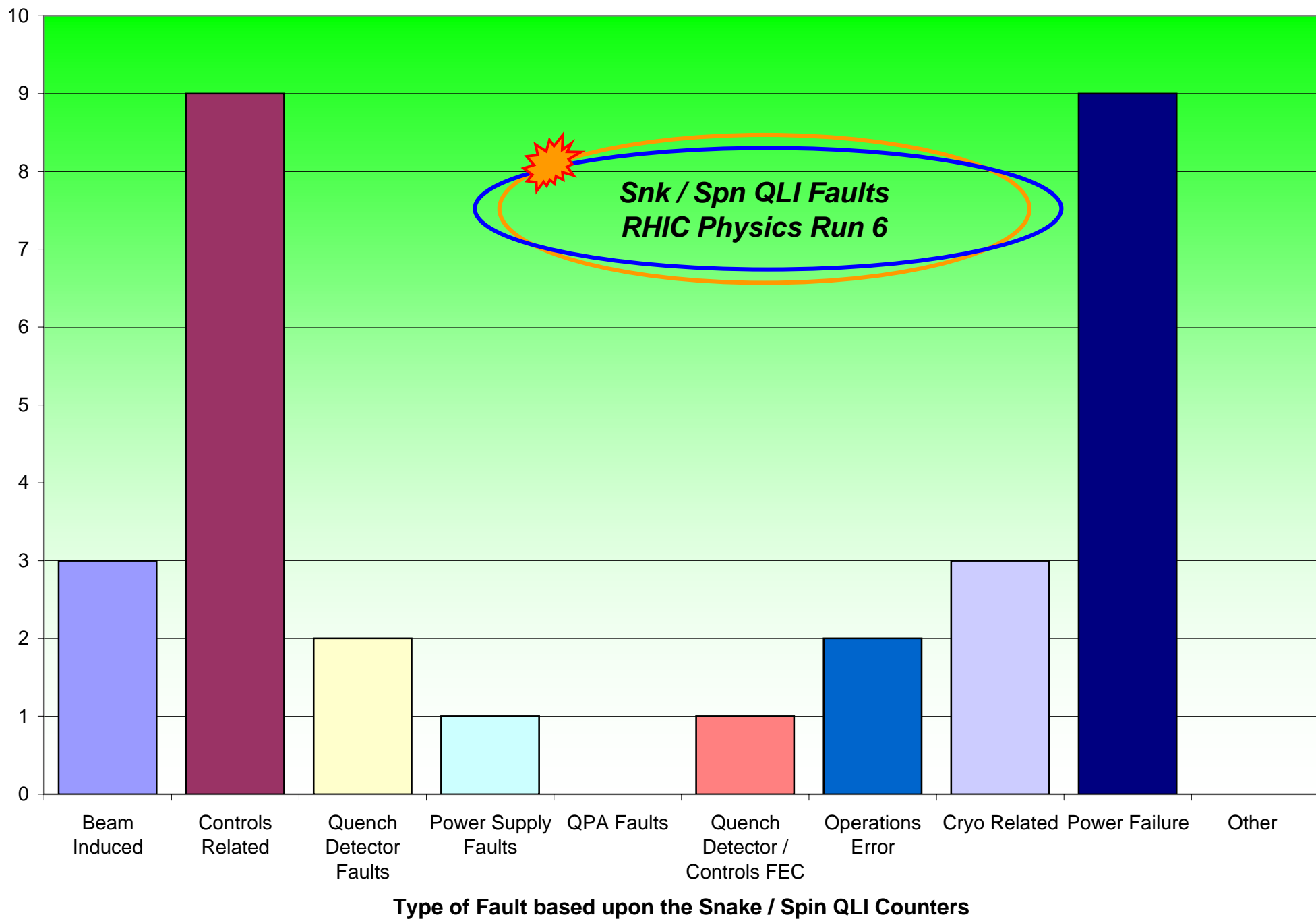


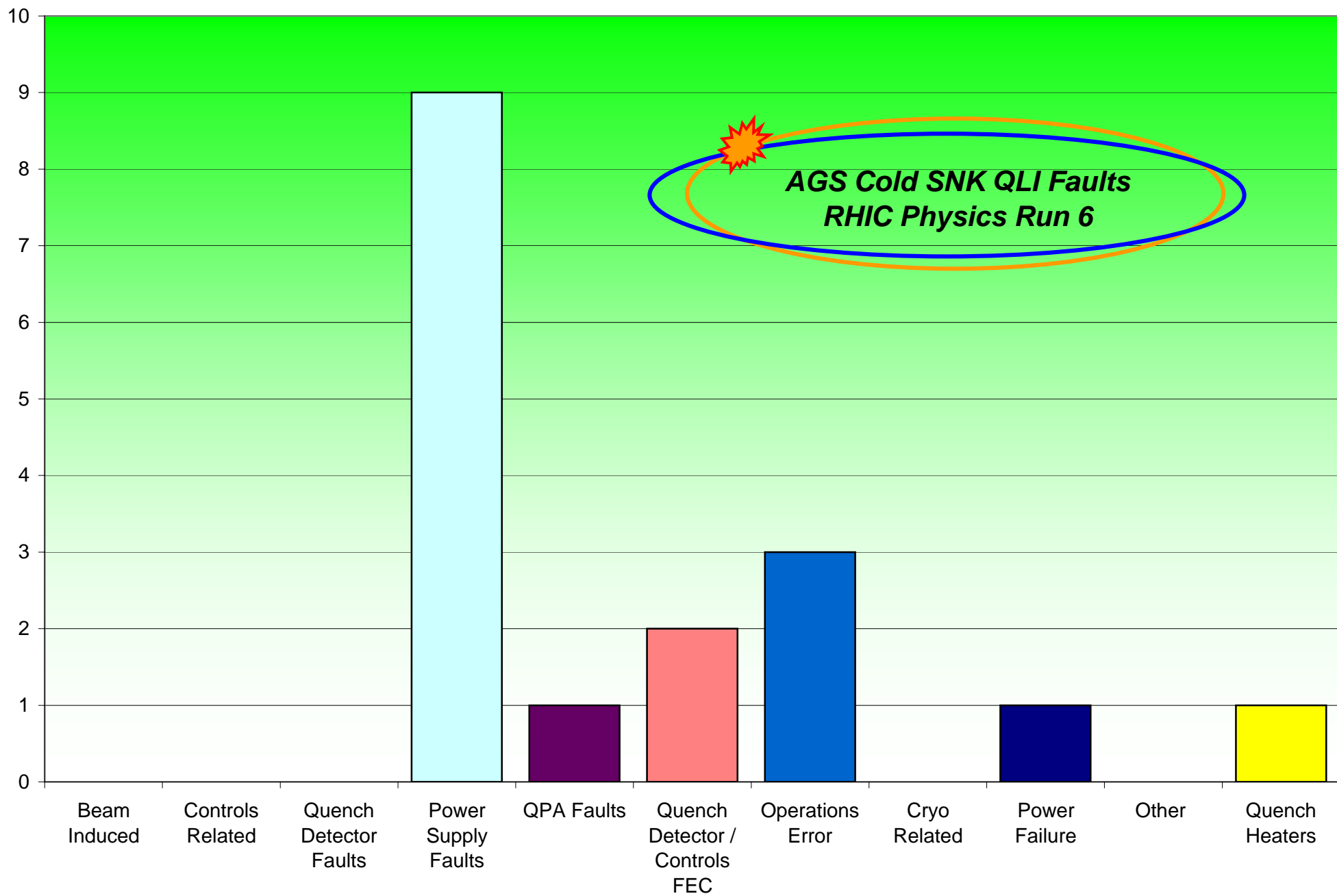
RHIC PHYSICS YEARLY RUN - QLI COUNTERS

Date	Qty	Identification	Fault	Action Taken
21-Feb-06	1	yi6-qf9	DCOC / Voltage Reg Card	Could not find the cause, swapped out the Voltage Regulator Card
28-Feb-06	4	yo9-qd7	Ireg, Firing, Buffer	1) Swapped current regulator card, firing card and buffer card for yo9-qd7ps. 2) Replaced J9 D connector and 3u chassis backplane of yo9-qd7-ps.
28-Feb-06	1	yo1-qf8	Ireg Card	Swapped out the Current Regulator Card
28-Feb-06	1	b8-q89	Ireg Card	Swapped out the Current Regulator Card
28-Feb-06	1	b2-q7	Wire Connection	Replaced gate drive wire to one SCR
28-Feb-06	4	QPA Fan Switches	Switches	Replaced bad qpa fan switches in 4 qpa's in 2B and 1 qpa in 4B
28-Feb-06	1	QPA	Switches	Replaced one qpa in 4B because of bad fan switches
28-Feb-06	1	bi5-rot3-2.3	Low Res Card	Swapped out Low Res card.
28-Feb-06	1	bi1-tv4	Faulty Reading	Replaced Node Card Cable
28-Feb-06	9	Cooling Fans	Ice Build Up	Added fans to magnet trees B8Q1, B8Q3, B9Q3, B12Q1, Y2Q1, Y2Q2, Y2Q3, Y9Q1 and Y9Q3
28-Feb-06	1	Y10-17TB	Ice Team Sensor	Replaced bad ice ball temperature sensor Y10-17TB.
2-Mar-06	1	b2-15TB	Ice Team Sensor	Sensor not responding, wrong ID Address was assigned
15-Mar-06	1	yo9-qd7	Current Spikes / Ireg Card	Swapped 3 channel isolation amplifier board between yo9-qd7 and yi10-qf7
15-Mar-06	1	yi3-qf7	Connection	Repaired connector on SCR gate of yi3-qf7
15-Mar-06	1	b8-q7	Gate Drive	Checked gate drive outputs of b8-q7 and they all looked good.
15-Mar-06	3	QPA Fan Switches	Switches	Swapped out qpa fan switches for yo12-qf2, yo12-qd1, and yi3-qf7
15-Mar-06	2	yo9-qgt / yi10-qgt	Off	Swapped Iref and Digital Iso Cards between yi10-qgt and bo10-qgt, bypasses Under Voltage Circuit in yi10-qgt and yo9-qgt
28-Mar-06	1	yo12-qd3	Gate Drive	Replaced Faulty Gate Drive Board, Transformer TR2 Secondary burnt due to failed C7 Cap
4-Apr-06	1	Reversed Polarity	yo4-cqs9	Swapped the sextupole magnet leads on yo4-cqs9.
4-Apr-06	2	QPA Fan Switches	Switches	Swapped out bad qpa fan switches for yi3-tq4 and bo3-qd7
19-Apr-06	1	bi4-tq4	Buffer Card	Original Card indicated 1/2 the value for voltage. New Type1 Buffer Card fixed the problem, no problems found with the original card.
3-May-06	1	bo11-qd1-ps	Current Reg Card	Power supply was coming up on the Alarm Page with a range error fault. Swapped out current regulator card for bo11-qd1 because of a bad relay. D. Bruno
3-May-06	1	yo5-tv17	Bad AC Connection	Supply tripped to the Off state, loose AC Connection at the rear of the power supply.
10-May-06	1	Y10-02TB	Ice Team Sensor	Replaced bad ice ball temperature sensor Y10-02TB.
10-May-06	1	Cooling Fans	Fan Fail	Replaced a failed fan on yo5-rot3 Magnet that was discovered on May 1
31-May-06	1	6K Dump Switches	Switches	Y9DQPSW and Y10DQPSW quench switches Fan switches (6 per unit) replaced
31-May-06	1	DX-Q4 Heaters	Ice Team Thermostat	Sector 1 Dx-Q4 magnet tree heaters and thermostats. Replaced YQ2 Thermostat and heater.
31-May-06	1	a20-csnk-sol-ps	Switches	Replaced qpa fan switches on A20-csnk-sol-qp.
31-May-06	1	yo1-qd1	Signal Cable	Replaced yo1-qd1-ps to yo1-qd1-qp signal cable.
8-Jun-06	1	yo1-qd1	Signal Cable	Faulty Ribbon Cable found from J102 to J11 Internal of Supply
8-Jun-06	1	b8-dh0	IGBT Module	Unable to make High Current Run Test, looking from the rear of the QPA, found Right Side IGBT Module blown. (Also replaced IGBT Driver Card)
8-Jun-06	1	bi9-q89	300 Amp Sun	Unable to make High Current Run Test, Swapped power Supply 1st attempt
8-Jun-06	1	bi9-q89	300 Amp Sun	Unable to make High Current Run Test, Swapped power Supply 2nd attempt
20-Jun-06	1	yo8-qf2	Buffer Card	MADC Current Readback bouncing, not real on the Power Supply
20-Jun-06	1	b2-dhX	IGBT Driver	Supply would Crowbar at the top, found 1 IGBT Driver Card of 4 to have faulty Caps
All Run 6	29	QPA Jumper Plugs	Preventative Fan Failure	Readings above allowable set standard, bypass plugs installed to prevent false fan failures until next available maintenance day (yi6-tq4, yi2-qf2, yi2-qf9, bi1-qd2, yo1-tq6, bo3-qf6, b-qtrim, b8-q7, bo10-qf6, yo12-qf2, yo12-qd3, yo12-qd1, yi3-qf7, yi3-tq4, bi5-qf9, yo4-qd1, bo3-qd7, b4-dhX, a20-ags-sol, yi10-dh0, yo4-qf2, bi4-tq6, bi8-qf1, yo9-tq6, bi9-dh0, Y10DQPSW, B10DQPSW, bi5-qf9, bo3-tq4)
Totals: 82				



Type of Fault based upon the Main QLI Counters





Type of Fault based upon the AGS Snake QLI Counters